

**Method and Apparatus for Binarization and Arithmetic Coding
of a Data Value**

Abstract

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10 Binarization a data value comprises binarizing the minimum of
the data value and a predetermined cut-off value in accor-
dance with a first binarization scheme, in order to yield a
primary prefix. If the data value is greater than the cut-off
15 value, binarizing a difference of the data value minus the
predetermined cut-off value in accordance with a second bi-
narization scheme to obtain a binary suffix, the first bi-
narization scheme being different from the second binariza-
tion scheme, and appending the primary suffix to the primary
20 prefix is performed. A very effective compression of data
values may be achieved by using the binarization scheme for
preparing the syntax elements for the arithmetic coding, the
binarization scheme substantially being a combination of two
different binarization schemes, and by using binary arithme-
tic coding instead of m-ary arithmetic coding for coding the
binarized syntax elements.

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